## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-149 International application No. PCT/EP 03/13828				FOR FURTHER A	CTION		n of Transmittal of Internati amination Report (Form Po	
				International filing date 28.11.2003	(day/mont	h/year)	Priority date (day/month/)	(year)
Inter	mation BL1/30	al Pat		both national classification	and IPC			
	licant IVER	SITA	T DE LES ILLES BAI	EARS				·
1.	This Auth	inter nority	national preliminary exa and is transmitted to the	amination report has been applicant according to	en prepar Article 3	ed by this Inte 6.	rnational Preliminary Ex	amining
2.	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of 1 sheets.							
3.	This	repo	rt contains indications re	elating to the following it	tems:			
•	1	⊠	Basis of the opinion					
	П		Priority					
	Ш		Non-establishment of	opinion with regard to r	novelty, in	ventive step a	nd industrial applicability	<b>y</b>
	IV		Lack of unity of invent	tion				
	V	$\boxtimes$		under Rule 66.2(a)(ii) w tions supporting such st		I to novelty, inv	ventive step or industrial	applicability;
	VI		Certain documents cit	ted				
	VII		Certain defects in the	international application	า			
	VIII		Certain observations	on the international app	lication		•	
Date	of sub	missic	n of the demand		Date of	completion of thi	s report	
28.04.2005			25.01.	2006	· •			
Name and mailing address of the international preliminary examining authority:				Authoriz	ed Officer		Deches Patentes	
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl				Tallgre	n, A			
Fax: +31 70 340 - 3016					Telepho	ne No. +31 70 3	40-3933	Office europe

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13828

I.	<b>Basis</b>	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):
 Description, Pages

	1-1	7	as originally filed				
	Cla	nims, Numbers					
	1-5	•	received on 28.06.2005 with letter of 25.06.2005				
	Dra	awings, Sheets					
	1 <i>/</i> 8	-8/8	as originally filed				
2.	Wit lan	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:				
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pub	plication of the international application (under Rule 48.3(b)).				
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under .3).				
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	ernational application in written form.				
		filed together with the	ne international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have i	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

No:

Yes: Claims Claims 1-5

Inventive step (IS)

Yes: Claims

1-5

No:

No:

Claims

Industrial applicability (IA)

Yes: Claims

Claims

1-5

2. Citations and explanations

see separate sheet

1. The amended claim 1 fulfill the criteria set by article 34(2)b and is therefore accepted (based to old claim 2 and page 8 lines 21-25, page 11 lines 5-14 and page 12 lines 6-17). The same applies to dependent claims 2-5 (based to old claims 3-6)

ITEM V

WO03030891 CPA (closest prior art)

- 1. Both the application and CPA describe the use same type of compounds (2-substituted oleic and related acids (2-hydroxyoleic acid)) as in this application for treating e.g. hypertension and obesity associated with structural changes in cell membranes.
- 2. The difference is, that in CPA there is no mentioning of use in food or dietary supplement type of products.
- 3. The technical problem solved by the present application is to provide an advantageous technical effect to food compositions, to avoid or reduce the risks of developing hypertension and obesity.
- 4. This application provides an alternative route to specific compound (2-substituted oleic and related acids (2-hydroxyoleic acid)) administration. D2-D4 comprise different fatty acids administered also as functional food to avoid or reduce the risks of cardiovascular diseases (hypertension or obesity not mentioned). WO0200042 describes the use of different long chain fatty acids to avoid or reduce obesity as functional food supplement. The compounds in the previous mentioned documents are not closely related derivatives or otherwise closely related compounds. The compounds described in CPA are not administered orally, but injected and therefore not easily changeable to other types of oral formulations (functional foods). Therefore there is no single document cited in the search report to give a hint to a skilled person to administer 2-substituted oleic and related acids (2-hydroxyoleic acid) as functional food additives. It is not regarded obvious for a skilled person to administer 2-substituted oleic and related acids (2-hydroxyoleic acid) as functional food additives as described in the present application.

Accordingly claim 1 (also dependent claims 2-5) meet the requirements of Articles 33(2) and (3) PCT.

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0 5. 07. 2005

#### CLAIMS



1.- Use of compounds of general formula I: COOH-CHR-(CH<sub>2</sub>) --CH=CH-(CH<sub>2</sub>)<sub>n</sub>-CH<sub>3</sub>, where R is OH and m and n have, independently, a value between 0 and 15, in the manufacture of food additives and/or ingredients, dietary products, acceptable food forms, functional food additives and foods in general, the ingestion of which is useful for the prevention and control of hypertension and/or obesity.

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- 2.- Use according to Claim 1, characterized in compounds of general formula I preferably have between 12 and 28 carbon atoms.
- 3.- Use according to any one of Claims 1 or 2 characterized in 15 that the compound of general formula I is preferably 2hydroxyoleic acid.
- 4.- Use according to claim 3, in which the ingestion of 2-20 hydroxyoleic acid, as food additive and/or ingredient dietary product, acceptable food form, functional food additive or food in general, is useful in the prevention and control hypertension.

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5.- Use according to claim 3, in which the ingestion of 2-25 hydroxyoleic acid, as food additive and/or ingredient dietary product, acceptable food form, functional food additive or food in general, is useful in the prevention and control of obesity.

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